

1 We claim:

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3 1. A circuit breaker, switch, or fuse status indicator consisting of a lighted visual display
4 with a distinctive color associated with each position of the circuit breaker, composed of:

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6 a multi-color light source; and

7 a passive electronic circuit taking advantage of the status contact of the breaker, that
8 changes the color of that light source, depending upon the status (or position) of the
9 circuit breaker.

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11 2. The circuit breaker, switch, or fuse status indicator circuit of Claim 1, wherein the
12 lighted visual display indicates one color when the circuit breaker is the "ON" position
13 and another color when the circuit breaker is in the "OFF" or "TRIPPED" position.

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15 3. The status indicator (for a circuit breaker) of Claim 1, wherein the lighted visual
16 display indicates one color when a three position (mid-trip style) circuit breaker is in the
17 "ON" position, and another color when that circuit breakers in the "OFF" position, and a
18 third color when that circuit breaker is in the "TRIPPED" position.

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20 4. The circuit breaker status indicator circuits of Claim 3 wherein a momentary test
21 switch is incorporated into the lighted visual display circuit, simulating a single circuit
22 breaker (or a group of circuit breakers) being turned to a "TRIPPED" position, causing a
23 change in the color of all associated lighted visual display(s)

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25 5. The circuit breaker status indicator circuits of Claim 3, wherein a momentary test
26 switch is incorporated into the lighted visual display circuit, simulating a single three
27 position (mid-trip style) circuit breaker—or a group of three position (mid-trip style)
28 circuit breakers—being turned to a "TRIPPED" position, causing an change in the color of
29 all associated lighted visual display(s).

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6. The circuit breaker status indicator circuits of Claim 3, where the circuit breaker status indicator is a circuit internal to the circuit breaker.

7. The circuit breaker status indicator of Claim 3, where the circuit breaker status indicator is a circuit external to the circuit breaker.

8. The circuit breaker status indicator and momentary test switch of Claim 3, where the circuit breaker status indicator and momentary test switch are a circuit internal to the circuit breaker.

9. The circuit breaker status indicator and momentary test switch of Claim 3, where the circuit breaker status indicator and momentary test switch are a circuit external to the circuit breaker.

10. The circuit for lighted status indicator of Claim 3, for a mid-trip circuit breaker having a SPDT (single pole, double throw) main contact and equipped with an SPDT (single pole, double throw) auxiliary status switch.

11. The circuit for lighted status indicator of Claim 3, for a mid-trip circuit breaker having a SPST (single pole, single throw) main contact and equipped with an SPST (single pole, single throw) auxiliary status switch.

12. The circuit for lighted status indicator of Claim 3, for a mid-trip circuit breaker having a SPST (single pole, single throw) main contact, and equipped with a SPST (single pole, single throw) or a SPDT (single pole; double throw) auxiliary status switch, with a push-button alarm test switch, for a positive ground DC or AC power system.

13. A compact, breaker-mounted module (L-Module) that monitors and displays individual breaker status.

- 1 **14.** The L-Module of Claim 13 designed to display, monitor, and directly report
2 individual breaker status (Direct Status Output L-Module).
3
4 **15.** An Alarm/Status module (A/S-Module) that monitors a series of L-Modules at
5 individual breakers (or circuit functioning similarly to L-Modules), outputs alarm
6 summary information for those L-Modules, and incorporating a momentary test switch.

DOT 13 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100